

# Marcel Drabbels

## List of Publications by Year in descending order

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76  
papers

2,164  
citations

147566

31  
h-index

253896

43  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1447  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate time zero determination in an ultrafast transmission electron microscope without energy filter. Applied Physics Letters, 2022, 120, 104103.	1.5	1
2	Microsecond melting and revitrification of cryo samples. Structural Dynamics, 2021, 8, 054302.	0.9	16
3	Ultrafast relaxation of photoexcited superfluid He nanodroplets. Nature Communications, 2020, 11, 112.	5.8	34
4	Characterization of a time-resolved electron microscope with a Schottky field emission gun. Structural Dynamics, 2020, 7, 054304.	0.9	27
5	Intense microsecond electron pulses from a Schottky emitter. Applied Physics Letters, 2020, 116, .	1.5	6
6	Real-time observation of jumping and spinning nanodroplets. Structural Dynamics, 2020, 7, 011101.	0.9	3
7	Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. Nature Communications, 2020, 11, 883.	5.8	50
8	Time-resolved formation of excited atomic and molecular states in XUV-induced nanoplasmas in ammonia clusters. Physical Chemistry Chemical Physics, 2020, 22, 7828-7834.	1.3	3
9	<i>In Situ</i> Observation of Coulomb Fission of Individual Plasmonic Nanoparticles. ACS Nano, 2019, 13, 12445-12451.	7.3	24
10	Real-Time Dynamics of the Formation of Hydrated Electrons upon Irradiation of Water Clusters with Extreme Ultraviolet Light. Physical Review Letters, 2019, 122, 133001.	2.9	16
11	Helium-induced electronic transitions in photo-excited Ba <sup>+</sup> He <sup>n</sup> exciplexes. Journal of Chemical Physics, 2018, 148, 144302.	1.2	4
12	Three-Dimensional Shapes of Spinning Helium Nanodroplets. Physical Review Letters, 2018, 121, 255301.	2.9	49
13	Harmonium: An Ultrafast Vacuum Ultraviolet Facility. Chimia, 2017, 71, 268.	0.3	7
14	Dynamics of photoexcited Ba <sup>+</sup> cations in 4He nanodroplets. Journal of Chemical Physics, 2016, 144, 094302.	1.2	15
15	Migration of surface excitations in highly-excited nanosystems probed by intense resonant XUV radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244011.	0.6	2
16	The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. Journal of Synchrotron Radiation, 2015, 22, 538-543.	1.0	46
17	Excitation of Sodium Atoms Attached to Helium Nanodroplets: The 3p $\rightarrow$ 3s Transition Revisited. Journal of Physical Chemistry A, 2015, 119, 6033-6044.	1.1	12
18	Novel Collective Autoionization Process Observed in Electron Spectra of He Clusters. Physical Review Letters, 2014, 112, 073401.	2.9	70

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19	Picosecond solvation dynamics of alkali cations in superfluid $^4\text{He}$ nanodroplets. <i>Physical Review B</i> , 2014, 89, 114401.	1.1	33
20	Communication: Nucleation of quantized vortex rings in $^4\text{He}$ nanodroplets. <i>Journal of Chemical Physics</i> , 2014, 140, 131101.	1.2	29
21	Elementary Excitations of Superfluid Helium Droplets Probed by Ion Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3100-3105.	2.1	6
22	Dynamics of Excited Sodium Atoms Attached to Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2738-2748.	1.1	20
23	Collective Autoionization in Multiply-Excited Systems: A novel ionization process observed in Helium Nanodroplets. <i>Scientific Reports</i> , 2014, 4, 3621.	1.6	54
24	Charge Transfer and Penning Ionization of Dopants in or on Helium Nanodroplets Exposed to EUV Radiation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4394-4403.	1.1	48
25	Critical Landau Velocity in Helium Nanodroplets. <i>Physical Review Letters</i> , 2013, 111, 153002.	2.9	66
26	Translational dynamics of photoexcited atoms in $^4\text{He}$ nanodroplets: the case of silver. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18388.	1.3	42
27	A modular end-station for atomic, molecular, and cluster science at the low density matter beamline of FERMI@Elettra. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164007.	0.6	78
28	Extreme ultraviolet ionization of pure He nanodroplets: Mass-correlated photoelectron imaging, Penning ionization, and electron energy-loss spectra. <i>Journal of Chemical Physics</i> , 2013, 139, 084301.	1.2	47
29	Mid-infrared spectroscopy of molecular ions in helium nanodroplets. <i>Journal of Chemical Physics</i> , 2012, 136, 044305.	1.2	40
30	Spectroscopy and dynamics of barium-doped helium nanodroplets. <i>Journal of Chemical Physics</i> , 2012, 136, 154302.	1.2	27
31	Desorption of alkali atoms from $^4\text{He}$ nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3996.	1.3	48
32	Communication: Barium ions and helium nanodroplets: Solvation and desolvation. <i>Journal of Chemical Physics</i> , 2012, 137, 051102.	1.2	26
33	Electronic Spectroscopy of Aniline Ions Embedded in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1563-1566.	2.1	28
34	Spectroscopy on Rydberg States of Sodium Atoms on the Surface of Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6779-6788.	1.1	35
35	Unusual Rydberg System Consisting of a Positively Charged Helium Nanodroplet with an Orbiting Electron. <i>Physical Review Letters</i> , 2011, 106, 083401.	2.9	38
36	IR Spectroscopy of Molecular Ions by Nonthermal Ion Ejection from Helium Nanodroplets. <i>Journal of the American Chemical Society</i> , 2010, 132, 14086-14091.	6.6	60

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37	Absorption spectroscopy of adenine, 9-methyladenine, and 2-aminopurine in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15600.	1.3	12
38	High-Resolution Excitation and Absorption Spectroscopy of Gas-Phase p-Coumaric Acid: Unveiling an Elusive Chromophore. <i>Journal of the American Chemical Society</i> , 2010, 132, 6315-6317.	6.6	36
39	Conformational Flexibility of a Rotaxane Thread Probed by Electronic Spectroscopy in Helium Nanodroplets. <i>Journal of the American Chemical Society</i> , 2009, 131, 12902-12903.	6.6	11
40	A new sensitive detection scheme for helium nanodroplet isolation spectroscopy: application to benzene. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6107.	1.3	17
41	Photodissociation of alkyl iodides in helium nanodroplets. I. Kinetic energy transfer. <i>Journal of Chemical Physics</i> , 2007, 127, 114303.	1.2	54
42	Photodissociation of alkyl iodides in helium nanodroplets. II. Solvation dynamics. <i>Journal of Chemical Physics</i> , 2007, 127, 114304.	1.2	24
43	Photodissociation of alkyl iodides in helium nanodroplets. III. Recombination. <i>Journal of Chemical Physics</i> , 2007, 127, 114305.	1.2	26
44	Excited State Dynamics of Ag Atoms in Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7504-7515.	1.1	49
45	Simple procedure to extract speed distributions from ion images with a large background contribution. <i>Review of Scientific Instruments</i> , 2005, 76, 113103.	0.6	5
46	Photoelectron Spectroscopy of Doped Helium Nanodroplets. <i>Physical Review Letters</i> , 2005, 95, 163401.	2.9	64
47	Imaging the Translational Dynamics of CF <sub>3</sub> in Liquid Helium Droplets. <i>Physical Review Letters</i> , 2004, 93, 253401.	2.9	42
48	Sign of the state-to-state steric asymmetry of rotationally inelastic atom-molecule collisions. <i>Chemical Physics</i> , 2004, 301, 293-308.	0.9	14
49	Rotational analysis of the origin and the inversion bands of the S <sub>1</sub> spectrum of acetaldehyde. <i>Journal of Chemical Physics</i> , 2001, 114, 8316-8327.	1.2	4
50	Infrared imaging camera based on a Rydberg atom photodetector. <i>Applied Physics Letters</i> , 1999, 74, 1797-1799.	1.5	17
51	Steric asymmetry in state-resolved NO-Ar collisions. <i>Chemical Physics Letters</i> , 1999, 313, 491-498.	1.2	56
52	Collisions and Chemistry of Super-Excited Molecules: Experiments Using the PUMP-DUMP-PROBE Technique. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7142-7154.	1.1	13
53	Direct spectroscopic determination of the degree of orientation of parity-selected NO. <i>Chemical Physics Letters</i> , 1998, 294, 332-338.	1.2	16
54	Demonstration of a far-infrared streak camera. <i>IEEE Journal of Quantum Electronics</i> , 1998, 34, 2138-2144.	1.0	16

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55	Rotational motion compensates the energy defect in near-resonant vibration-vibration energy transfer: A state-to-state study of NO( $v$ )+N <sub>2</sub> O. Journal of Chemical Physics, 1998, 109, 355-358.	1.2	5
56	Decay of oriented Rydberg wave packets excited with far-infrared radiation. Physical Review A, 1998, 57, 440-445.	1.0	10
57	Parity-Resolved State-to-State Cross Sections for Inelastic Scattering of NO( $v=20, J=0.5, e/f$ ) from He: A Comparison between Crossed Molecular Beams Experiments and ab Initio Theory. Journal of Physical Chemistry A, 1997, 101, 6463-6474.	1.1	36
58	The determination of the infrared radiative lifetimes of a vibrationally excited neutral molecule using stimulated-emission-pumping, molecular-beam time-of-flight. Journal of Chemical Physics, 1997, 106, 3024-3028.	1.2	31
59	Streak camera operating in the mid infrared. Optics Letters, 1997, 22, 1436.	1.7	15
60	Infrared Streak Camera. Optics and Photonics News, 1997, 8, 48.	0.4	1
61	High resolution pulsed-cw double-resonance spectroscopy on the B $1^1\Sigma^+(v=0) \leftarrow A^1\Pi(v=0)$ system of CO. Chemical Physics Letters, 1997, 267, 127-131.	1.2	6
62	State-specific neutral time-of-flight of CO from ketene photodissociation at 351 nm: The internal energy distribution of CH <sub>2</sub> (X $1^1\Sigma^+(v=3)$ ). Journal of Chemical Physics, 1996, 105, 4550-4555.	1.2	27
63	The correlated product state distribution of ketene photodissociation at 308 nm. Journal of Chemical Physics, 1996, 104, 7460-7474.	1.2	49
64	The electric dipole moment and hyperfine structure of NO B $2^1\Pi$ : high resolution laser-induced fluorescence spectroscopy of the B $2^1\Pi(v=3) \leftarrow X^2^1\Pi(v=0)$ bands. Chemical Physics Letters, 1996, 256, 8-14.	1.2	10
65	The spin-forbidden $4^1\Pi(v=13) \leftarrow 4^1\Sigma^+(v=3)$ and $4^1\Sigma^+(v=3) \leftarrow X^2^1\Pi(v=0)$ bands of nitric oxide: A new scheme for quantum state-specific high-resolution kinetic energy measurements. Journal of Chemical Physics, 1995, 103, 7700-7707.	1.2	20
66	The first vibronically resolved measurement of correlated product state distributions in ultraviolet photodissociation: Ketene at 308 nm. Journal of Chemical Physics, 1995, 102, 611-614.	1.2	29
67	A study of the singlet-triplet perturbations in the A $1^1\Sigma^+(v=1)$ state of acetylene by high resolution ultraviolet spectroscopy. Journal of Chemical Physics, 1994, 100, 165-174.	1.2	54
68	Accurate determination of predissociation rates and transition frequencies for carbon monoxide. Astrophysical Journal, 1994, 427, L55.	1.6	27
69	High-resolution laser-induced fluorescence study of a cage molecule, 1,4-diazabicyclo [2,2,2] octane, DABCO. Chemical Physics, 1993, 174, 267-276.	0.9	10
70	Determination of electric dipole moments and transition probabilities of low-lying singlet states of CO. Journal of Chemical Physics, 1993, 99, 2352-2358.	1.2	32
71	High resolution double-resonance spectroscopy on Rydberg states of CO. Journal of Chemical Physics, 1993, 99, 5701-5711.	1.2	47
72	Acetone, a laser-induced fluorescence study with rotational resolution at 320 nm. Chemical Physics, 1992, 163, 193-208.	0.9	38

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73	Production of an intense pulsed beam of oriented metastable CO a $3\hat{1}$ . Chemical Physics Letters, 1992, 200, 108-112.	1.2	18
74	The first LIF spectrum of SiC. Chemical Physics Letters, 1991, 176, 404-406.	1.2	18
75	The $\hat{3}1^{\text{TM}}(v=0) \hat{6} \hat{X} \hat{3}1^{\text{TM}}(v=0)$ transition in SiC. Journal of Chemical Physics, 1991, 95, 2292-2298.	1.2	32
76	A far infrared laser sideband spectrometer in the frequency region 550-2700 GHz. Review of Scientific Instruments, 1990, 61, 1612-1625.	0.6	62